

B. AMENDMENTS TO THE CLAIMS

Claims 1-89 are cancelled without prejudice.

1 90. (new) A ball bat comprising:
2 a substantially tubular frame extending along a longitudinal axis having a
3 handle portion and a primary hitting portion, the hitting portion including a proximal region, a
4 distal region, and first and second tubular wall transition regions, the first tubular wall
5 transition region positioned closer to the proximal region than the second tubular wall transition
6 region, the wall thickness of the first tubular wall transition region generally increasing along
7 the longitudinal axis from the proximal region toward the distal region, and the wall thickness
8 of the second tubular wall transition region generally increasing along the longitudinal axis
9 from the distal region toward the proximal region.

1 91. (new) The ball bat of claim 90, wherein the first and second tubular wall
2 transition regions each have a length within the range of 0.25 to 7.0 inches.

1 92. (new) The ball bat of claim 90, wherein the first and second tubular wall
2 transition regions each have a length within the range of 0.50 to 5.0 inches.

1 93. (new) The ball bat of claim 90, wherein the first and second tubular wall
2 transition regions each have a length within the range of 2.0 to 4.0 inches.

1 94. (new) The ball bat of claim 90, wherein the hitting portion further includes an
2 intermediate tubular region having generally uniform wall thickness and positioned between the
3 first and second tubular wall transition regions.

1 95. (new) The ball bat of claim 94, wherein the intermediate tubular region has a
2 length within the range of 0.25 to 9.0 inches.

1 96. (new) The ball bat of claim 94, wherein the intermediate tubular region has a
2 length within the range of 0.1 to 5.0 inches.

1 97. (new) The ball bat of claim 90, wherein at least one of the proximal and distal
2 regions has a generally uniform wall thickness.

1 98. (new) The ball bat of claim 90, wherein the difference in wall thickness from a
2 first end of the first tubular wall transition region to a second end of the first tubular wall
3 transition region is within the range of 0.003 to 0.040 inches, and the difference in wall
4 thickness from a first end of the second tubular wall transition region to a second end of the
5 second tubular wall transition region is within the range of 0.003 to 0.040 inches.

1 99. (new) The ball bat of claim 98, the difference in wall thickness of the first
2 tubular wall transition region is within the range of 0.005 to 0.015 inches, and wherein the
3 difference in wall thickness of the second tubular wall transition region is within the range of
4 0.005 to 0.015 inches.

1 100. (new) The ball bat of claim 90, wherein the wall thickness of the first tubular
2 wall transition region generally increases linearly along the longitudinal axis from the first
3 position, generally near the proximal end, toward the distal end.

1 101. (new) The ball bat of claim 90, wherein the wall thickness of the second
2 tubular wall transition region generally increases linearly along the longitudinal axis from the
3 second position, generally near the distal end, toward the proximal end.

1 102. (new) The ball bat of claim 90, wherein the wall thickness of the first tubular
2 wall transition region generally increases non-linearly along the longitudinal axis from the first
3 position, generally near the proximal end, toward the distal end.

1 103. (new) The ball bat of claim 90, wherein the wall thickness of the second
2 tubular wall transition region generally increases non-linearly along the longitudinal axis from
3 the second position, generally near the distal end, toward the proximal end.

1 104. (new) The ball bat of claim 90, wherein the wall thickness of the hitting
2 portion is within the range of 0.045 to 0.120 inches.

1 105. (new) The ball bat of claim 90, wherein the hitting portion has inner and outer
2 tubular surfaces, wherein the diameter of the inner tubular surface varies by at least 0.005
3 inches along its length, and wherein the diameter of the outer tubular surface is substantially
4 uniform along its length.

1 106. (new) The ball bat of claim 90, wherein the hitting portion has inner and outer
2 tubular surfaces, wherein the diameter of the inner tubular surface is substantially uniform
3 along its length, and wherein the diameter of the outer tubular surface varies by at least 0.005
4 inches along its length.

1 107. (new) A ball bat comprising:
2 a substantially tubular frame extending along a longitudinal axis having a
3 handle portion and a primary hitting portion; the hitting portion including first, second, third
4 and fourth separate portions, the wall thickness of the hitting portion varying along its length
5 such that at least the first and second separate portions of the hitting portion each have
6 thickness greater than the average thickness, and at least the third and fourth separate portions
7 of the hitting portion each have a wall thickness below the average wall thickness value.

1 108. (new) The ball bat of claim 108, wherein at least one of the third and fourth
2 separate portions is positioned between the first and second portions of the body.

1 109. (new) The ball bat of claim 108, wherein each of the first, second, third and
2 fourth portions have a length of at least one inch.

1 110. (new) The ball bat of claim 108 wherein the differential in wall thickness of
2 hitting portion between at least one of the first and second portions and at least one of the third
3 and fourth portions is within the range of 0.003 to 0.050 inches.

1 111. (new) The ball bat of claim 108 wherein the differential in wall thickness of
2 hitting portion between at least one of the first and second portions and at least one of the third
3 and fourth portions is within the range of 0.005 to 0.015 inches.